DELHI PUBLIC SCHOOL, LEH, LADAKH
ANNUAL SYLLABUS: 2024-2025
CLASS: XI

BIOLOGY (044)		
MONTH	**BOOK / SECTION**	**CHAPTER / TOPIC**
MAY	NCERT	CHAPTER 8:- CELL: THE UNIT OF LIFE
JUNE	NCERT	CHAPTER 10:- CELL CYCLE & CELL DIVISION CHAPTER 13:- PHOTOSYNTHESIS IN HIGHER PLANTS
JULY	NCERT	CHAPTER 14:- RESPIRATION IN PLANTS
AUGUST	NCERT	CHAPTER 15:- PLANTS GROWTH AND DEVELOPMENT CHAPTER 16:- DIGESTION AND ABSORPTION
SEPTEMBER	NCERT	CHAPTER 17:- BREATHING & EXCHANGE OF GASES CHAPTER 18:- BODY FLUIDS & CIRCULATION CHAPTER 20:- LOCOMOTION & MOVEMENT
OCTOBER	NCERT	CHAPTER 21:- NEURAL CONTROL & COORDINATION CHAPTER 22:- CHEMICAL COORDINATION & INTEGRATION
NOVEMBER	NCERT	CHAPTER 5:- MORPHOLOGY OF FLOWERING PLANTS CHAPTER 6:- ANATOMY OF FLOWERING PLANTS CHAPTER 3:- PLANTS KINGDOM

**SYLLABUS:

TERM	COURSE
PA-I	CHAPTER 8, 10, 13 & 14
HALF YEARLY	CHAPTER 8,10,13,14 , 15, 16, 17, 18
FINAL EXAM	**ENTIRE SYLLABUS**

Mathematics		
MONTH	**BOOK / SECTION**	**CHAPTER / TOPIC**
JULY	NCERT	Chapter 1: Sets Chapter 2: Relation and function
AUGUST	NCERT	Chapter 3: Trigonometry Chapter 4: Principal of Mathematical Induction
SEPTEMBER	NCERT	Chapter 5: Complex numbers and quadratic Equations Chapter 6: Linear Inequalities Chapter 7: Permutations and Combinations
OCTOBER	NCERT	Chapter 8: Binomial Theorem Chapter 9: Sequence and Series Chapter 10: Straight lines
NOVEMBER	NCERT	Chapter 11:Conical sections Chapter 13:Limits and Derivatives Chapter 16:Probability
DECEMBER	NCERT	Revision

**SYLLABUS:

TERM	COURSE
PA-I	Chapter 1, Chapter 2, and half Chapter 3

HALF YEARLY	Chapter 1, Chapter 2, Chapter 3, Chapter 4, Chapter 5, Chapter 6, Chapter 7, Chapter 8
FINAL EXAM	Whole Exam

PHYSICS (042)		
MONTH	**BOOK / SECTION**	**CHAPTER / TOPIC**
MAY	Physics – Part – 1 **(NCERT)** Simplified Physics by **S.L. Arora**	Chapter 2: Units and Measurements Chapter 3 : Motion in a straight line. Experiment: Determine the Volume and Density of Rectangular body using Vernier caliper.
JUNE	Physics – Part – 1 **(NCERT)** Simplified Physics by **S.L. Arora**	Chapter 4: Motion in a plane. Experiment: Determine the Volume of spherical body using Vernier caliper.
JULY	Physics – Part – 1 **(NCERT)** Simplified Physics by **S.L. Arora**	Chapter 2: Units and Measurements. (Revision) Chapter 3 : Motion in a straight line. (Revision) Chapter 4: Motion in a plane. (Revision) Experiment: Determine the Volume of Cylindrical body using Vernier caliper.
August	Physics – Part – 1 **(NCERT)** Simplified Physics by **S.L. Arora**	Chapter 5: Laws of Motion. Chapter 6: Work, Energy and Power Chapter 8: Gravitation Experiment: Determine the volume of Cylindrical/ Spherical body using Vernier Caliper.
September	Physics – Part – 1 **(NCERT)** Simplified Physics by **S.L. Arora**	Chapter 9: Mechanical Properties of Solids. Chapter 10: Mechanical Properties of Fluids. Chapter11: Thermal Properties of Matter Experiment: Determine the volume of the given irregular lamina using Screw Guage. Experiment: Determine the diameter of given wire using Screw Gauge
October	Physics – Part – 2 **(NCERT)** Simplified Physics by **S.L. Arora**	Chapter 14: Oscillation Chapter 15: Waves Experiment: Determine the radius of curvature of Spherical mirror using spherometer. Activities: 1.To make a paper scale of given least count. 2. To determine mass of a given body using meter scale by principle of moment.
November	Physics – Part – 2 **(NCERT)** Simplified Physics by **S.L. Arora**	Chapter 12:Thermodynamics. Chapter 13:Kinetic theory of gases. Chapter 7: System of particles and rotational motion Experiment: To determine the mass of different bodies using beam balance.
December		Revision whole syllabus online
JANUARY		Revision whole syllabus online
FEBRUARY		Revision whole syllabus online

**SYLLABUS:

TERM	COURSE
PA-I	Chapter 2: Units and Measurements. Chapter3: Motion in a straight line. Chapter 4: Motion in a plane.
HALF YEARLY	Chapter 2: Units and Measurements. Chapter3: Motion in a straight line. Chapter 4: Motion in a plane. Chapter 5: Laws of Motion Chapter 6: Work, energy and power Chapter 8: Gravitation
PA II	Chapter 9: Mechanical properties of Solids Chapter 10: Mechanical properties of Fluids. Chapter 11: Thermal Properties of Matter.
FINAL EXAMINATIONS	**ENTIRE SYLLABUS**

FINAL EXAMINATION	**BOOK 1 AND BOOK 2 ENTIRE SYLLABUS**

CHEMISTRY

MONTH	BOOK/ SECTION	CHAPTER/ TOPIC
MAY	**NCERT** **PRADEEP**	**Chapter 1: Some Basic Concept of Chemistry**
JUNE	**NCERT** **PRADEEP**	**Chapter 2: Structure of Atom**
JULY	**NCERT** **PRADEEP**	Chapter 4: Chemical Bonding and Molecular Structure
AUGUST	**NCERT** **PRADEEP**	Chapter 8: Organic Chemistry – Some Basic Principles and techniques Chapter 9: Hydrocarbons
SEPTEMBER	**NCERT** **PRADEEP**	Chapter 3: Classification of Elements and Periodicity in Properties
OCTOBER	**NCERT** **PRADEEP**	Chapter 5: Chemical Thermodynamics Chapter6: Equilibrium

NOVEMBER	**NCERT** **PRADEEP**	Chapter 7: Redox Reaction
DECEMBER	**NCERT** **PRADEEP**	**REVISION**

***SYLLABUS:

TERM	COURSES
PA-1	Chapter: 1, 2,4.
HALF YEARLY	Chapter: 1, 2, 4, 8, 9.
FINAL EXAM	**ENTIRE SYLLABUS**

PHYSICAL EDUCATION (048)		
MONTH	**BOOK / SECTION**	**CHAPTER / TOPIC**
MAY	VISHVAS	CHAPTER 1: CHANGING TRENDS & CAREER IN PHYSICAL EDUCATION CHAPTER 2: OLYMPISM
JUNE	VISHVAS	CHAPTER 2: OLYMPISM (OLYMPIC VALUE EDUCATION) CHAPTER 3: YOGA
JULY	VISHVAS	CHAPTER 3: YOGA
AUGUST	VISHVAS	CHAPTER 4: PHYSICAL EDUCATION AND SPORTS FOR CWSN (children with special needs- divyang)
SEPTEMBER	VISHVAS	CHAPTER 5: PHYSICAL FITNESS, HEALTH, AND WELLNESS CHAPTER 6: TEST, MEASUREMENT AND EVALUATION
OCTOBER	VISHVAS	CHAPTER 7: FUNDAMENTAL OF ANATOMY, PHYSIOLOGY IN SPORTS CHAPTER 8: FUNDAMENTAL OF KINSIOLOGY AND BIOMECHANICS IN SPORTS
NOVEMBER	VISHVAS	CHAPTER 9: PSYCHOLOGY AND SPORTS CHAPTER 10: TRAINING AND DOPING IN SPORTS
DECEMBER		REVISION AND PRACTICAL

**SYLLABUS:

TERM	COURSE
PA-I	CHAPTER 1,2 & 3
HALF YEARLY	CHAPTER 1, 2, 3, 4 & 5
FINAL EXAM	**ENTIRE SYLLABUS**

English		
MONTH	**BOOK / SECTION**	**CHAPTER / TOPIC**

Month		Content
May	**HORNBILL & SNAPSHOTS**	Hornbill: 1. Portrait of a lady (Prose) 1. A Photograph (Poem) Snapshots :1.Summer of a beautiful white horse
June	**HORNBILL & SNAPSHOTS**	Hornbill: 2. We're not afraid to die……..(Prose) 3. The Laburnum Top (Poem) Snapshots: 2. The Address Writing skills: Poster writing
July	**HORNBILL & SNAPSHOTS**	Hornbill: 3. Discovering Tut….(Prose) 4. The Voice of the Rain ((Poem) Grammar: Tenses
August	**HORNBILL & SNAPSHOTS**	Hornbill: 7. The Adventure (Prose) 5. Childhood (Poem) Snapshots: 5. Mother's Day Writing Skills: Advertisement
September	**HORNBILL & SNAPSHOTS**	Hornbill: 8. Silk Road (Prose) 6. Father to Son (poem) Snapshots: 7. Birth writing skills: Speech writing
October	**HORNBILL & SNAPSHOTS**	Snapshots : The tale of the Melon city Writing skills: Debate writing Grammar : clauses
November		**REVISION AND TESTS GRAMMAR PRACTICE SHEETS**

SYLLABUS:

TERM	COURSE
PA-I	HORNBILL: Chapter 1. Portrait of a Lady Chapter 2. We're not afraid to die ……, Poem 1. A Photograph Poem 3. The Laburnum Top SNAPSHOTS:

		Chapter 1. The Summer of a Beautiful White Horse Grammar and Writing: Tenses & Poster writing
HALF YEARLY	HORNBILL Chapter 3. Discovering Tut Chapter 7. The Adventure Poem 4. The voice of the Rain Poem 5. Childhood SNAPSHOTS Chapter 2. The Address Chapter 5. Mother's Day Grammar & Writing: Advertisements, Speech Writing, Clauses & sentence reordering	
FINAL	**ENTIRE SYLLABUS**	

Informatics Practices   CLASS XI   Code No. 065

MONTH	BOOK / SECTION	CHAPTER / TOPIC
MAY		**Unit 1: Introduction to Computer System** Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.
JUNE	**INFORMATICS PRACTICES WITH PYTHON PREETI ARORA**	**Unit 1: Introduction to Computer System** Software: purpose and types – system and application software, generic and specific purpose software.
JULY		Unit 2: Introduction to Python Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging, Control Statements: if-else, for loop
August		Unit 2: Introduction to Python Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions. Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions

September		Unit 3: Database concepts and the Structured Query Language • Database Concepts: Introduction to database concepts and its need, Database Management System. • Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key • Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types
October		Unit 3: Database concepts and the Structured Query Language • Data Definition: CREATE TABLE • Data Query: SELECT, FROM, WHERE. • Data Manipulation: INSERT
November		Unit 4: Introduction to the Emerging Trends Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.
December		Revision

**SYLLABUS:

TERM	COURSE
PA-I	Chapter 1 &2
HALF-YEARLY	Chapter 1 ,2&3
PA-II	Chapter 3 &4
Final	Chapter 3,4&5